

LAB 5

Error 1:

During validation:

```
smartshop.xml > products > product
1  <?xml version="1.0" encoding="UTF-8"?>
2  <?xml-model href="smartshop.xsd" type="application/xml" />
3  <products>
4      <product id="P1">
5          <name>Electronics</name>
6          <price>99990</price>
7          <description>iPhone 14</description>
8      </product>
9      <product id="P2">
10         <name>Book</name>
11         <price>300</price>
12         <description>The Lost Symbol</description>
13     </product>
14     <product id="P3">
15         <name>Clothing</name>
16         <price></price>
17         <description>Shawl</description>
18     </product>
19     <product id="P4">
20         <name>Clothing</name>
21         <price>120</price>
22         <description>Handkerchief</description>
23     </product>
24 </products>
```

Error encountered:

```
XML file is not valid against the XSD schema.
Traceback (most recent call last):
  File "d:\MCA\TRIMESTER 1\WSD\ASSIGNMENTS\LE-5\validation.py", line 10, in <module>
    print(validator.validate(xml_file))
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Python\Lib\site-packages\xmlschema\validators\schemas.py", line 1719, in validate
    raise error
xmlschema.validators.exceptions.XMLSchemaDecodeError: failed validating '' with XsdAtomicBuiltin(name='xs:decimal'):
Reason: invalid value '' for xs:decimal

Schema:
<xs:simpleType xmlns:hfp="http://www.w3.org/2001/XMLSchema-hasFacetAndProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema" name="decimal" id="
decimal">
  <xs:annotation>
    <xs:appinfo>
      <hfp:hasFacet name="totalDigits" />
      <hfp:hasFacet name="fractionDigits" />
      <hfp:hasFacet name="pattern" />
      <hfp:hasFacet name="whiteSpace" />
      <hfp:hasFacet name="enumeration" />
      <hfp:hasFacet name="maxInclusive" />
      <hfp:hasFacet name="maxExclusive" />
      <hfp:hasFacet name="minInclusive" />
      <hfp:hasFacet name="minExclusive" />
      <hfp:hasProperty name="ordered" value="total" />
      <hfp:hasProperty name="bounded" value="false" />
    </xs:appinfo>
    <hfp:hasProperty name="cardinality" value="countably infinite" />
    <hfp:hasProperty name="numeric" value="true" />
  </xs:appinfo>
  <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#decimal" />
</xs:annotation>
<xs:restriction base="xs:anySimpleType">
  ...
  ...
</xs:simpleType>

Instance:

<price />

Path: /products/product[3]/price

PS D:\MCA\TRIMESTER 1\WSD\ASSIGNMENTS\LE-5>
```

An error was encountered as a value was not given for “price”. Therefore, there was an error in validating the XML file against the XSD.

Error 2:

```
<xsl:for-each select="product">
  <tr>
    <td>
      <xsl:value-of select="name" />
    </td>
    <td>
      <xsl:value-of select="price" />
    </td>
    <td>
      <xsl:value-of select="descriptipion" />
    </td>
  </tr>
</xsl:for-each>
```

Smart Shop

Let's do some smart shopping!

Name	Price	Description
Electronics	99990	
Book	300	
Clothing	250	
Electronics	12000	
Book	300	
Clothing	300	
Book	120	
Clothing	2500	

The output for description doesn't appear as there was a typing error in the XSL file.